

accessing pattern data, the pattern data correlating mouth identifiers to sets of analysis information such that each mouth identifier that is a usable mouth indicator corresponds to at least one set of ranges including

- i) a specific range of spectral content,
- ii) a specific range of zero crossings counts, and
- iii) a specific range of power values;

comparing the spectral content, the zero crossings count and the power value for the portion with the pattern data to identify a mouth indicator;  
outputting the mouth indicator for the portion in synchrony with the portion.

92. A method of performing a character comprising:

receiving data, resulting from manipulations of a performer, representing changes to be made to component elements of the character in a frame; and  
generating a sequence of transition compositing commands based upon the manipulations.

105. A method of simultaneously creating two animations, each having a character sharing common character image elements reflecting actions of the character and differing mouth image elements, the differing mouth image elements comprising first mouth image elements corresponding to a first language in the first animation and second mouth image elements corresponding to a second language in a second animation, the method comprising:

receiving a first audio stream in the first language and a second audio stream in a second language;

analyzing the first audio stream to obtain a first mouth state stream;  
analyzing the second audio stream to obtain a second mouth state stream;  
identifying a series of first mouth image elements using the first mouth state stream;  
identifying a series of second mouth image elements using the second mouth state stream;  
stream;  
compositing a series of character image elements and the series of first mouth image elements together to create a first animation; and  
compositing the second series of character image elements and the series of second mouth image elements together to create a second animation.

108. The method of claim 107 further comprising:  
storing the set of compositing commands.

126. A transition table for use in producing an animation comprising:  
a first set of entries which, when sequenced through, will effect a first change in a component of an animation from an initial state to a goal state; and  
a second set of entries which, when sequenced through, will [effect] effect a second change in the component from the initial state to a second goal state.

133. The apparatus of claim 132 wherein the image parameter comprises at least one location, rotation, translation, scale, or spatial orientation parameter.

Please add new claims 146- 158 for examination as follows:

--146. A program stored in a computer readable medium comprising:

a program which when executed by a processor performs the method of claim 48.--

--147. A program stored in a computer readable medium comprising:

a program which when executed by a processor performs the method of claim 60.--

--148. A program stored in a computer readable medium comprising:

a program which when executed by a processor performs the method of claim 67.--

--149. A program stored in a computer readable medium comprising:

a program which when executed by a processor performs the method of claim 78.--

--150. A program stored in a computer readable medium comprising:

a program which when executed by a processor performs the method of claim 97.--

--151. A program stored in a computer readable medium comprising:

a program which when executed by a processor performs the method of claim 105.--

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--152. The method of claim 112 further comprising:

identifying a first set of entries from the frames database which, when sequenced through, will effect a first change in a component of an animation from an initial state to a goal state; and

identifying a second set of entries from the frames database which, when sequenced through, will effect a second change in the component from the initial state to a second goal state.--

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--153. The method of claim 152 further comprising:

constructing a table for use in conjunction with at least one of the first set of entries or the second set of entries, the table comprising at least one of a command, a program segment, data, control information, a direct reference to an image, an indirect reference to an image, vector description information, a location, a transformation, a tag, a magnification factor, a zoom factor, a function or a parameter.--

--154. The table of claim 153 wherein the first set of entries are stored on a computer readable medium.--

--155. The table of claim 153 further comprising:

identifying a third set of entries which, when sequenced through, will effect a default transition.